MINUTEMAN®
Power Technologies
From Para Systems, Inc.

Our Business is Protecting Your Investment

Product Catalog

A Legacy of Protection

Para Systems, Inc. manufactures the Minuteman® line of power protection and power management products. For more than 25 years, the Minuteman brand has been synonymous with high quality power protection products for the commercial and consumer markets.

Through the years, Minuteman products have included innovative features and the product line has evolved to include a full spectrum of single-phase and three-phase uninterruptible power supplies that satisfy the exacting requirements of our end-users. Our single-phase UPS products range in power ratings from 400VA to 24kVA and three-phase products range from 10kVA to 750kVA. Our strong reputation for delivering unmatched reliability has resulted in offering the industry's best warranty.

As a leading manufacturer of power protection and power management solutions, both large and small businesses rely on Minuteman to protect their most mission critical hardware - and we take that very seriously. With an installed base of nearly two million devices, our customers place their confidence in our products to provide clean, consistent power to maintain uninterrupted uptime, insuring smooth business operations.

Minuteman products are sold exclusively through an extensive network of distributors and value-added resellers.

Applications

- **Workstations** - From home office, and data entry computers to high-end graphics systems
- **Data Centers** - Peripheral closets housing routers and switches, server rooms, wireless systems, and data storage devices
- **Security Systems** - Including CCTV cameras, DVRs, access control systems, and monitoring facilities
- **Telephone and VoIP systems** - All types of communications systems whether you're running a small phone system, to a large VoIP, legacy PBX, or ePBX
- **Point-of-Sale Terminals** - Cash registers, scanners, and electronic scales
- **Factory and Manufacturing** - Computer-controlled machinery, robotics, conveyors, and warehouse management systems

Warranty

While most manufacturers of power protection equipment cover their products with a one or two-year warranty, Minuteman provides three years of coverage on all UPS products, plus a lifetime warranty on most of our surge suppressor products. Our history of quality and reliability enables us to offer more protection to our customers. Warranty details are included with each product or on our website. An optional five-year warranty is also available for most UPS products at an additional charge.

Customer Support

Providing unrivaled personal service and support has always been a high priority. Our commitment is to respond to our customer inquiries and technical support requests within a 2-hour window from the time contact is made. You will not have to weave your way through a complicated maze of choices and options when you contact us. We understand the value of your time and we will not waste it.

Platinum Protection Plan®

Minuteman products are all backed by our Platinum Protection Plan that guarantees that when your equipment is properly attached to one of our power protection devices it is safe from damage, or we will repair or replace the attached equipment. Coverage of attached devices ranges from $25,000 for our surge products, up to $200,000 for our high-end UPS products. See details on our packaging or website.

Green Initiative

As part of our efforts to maintain a healthy environment, Minuteman products comply with the Restriction of certain Hazardous Substances (RoHS) Directive as conceived by the European Union Committee in 2002.

Para Systems has proactively adopted these standards for our Minuteman brand products and offers other services such as a no-charge battery recycling service as part of our "Green Initiative". Additionally, many of our products offer energy savings options such as power factor correction, load shedding, and automatic shutdown and re-start functions.

Look for these icons next to our products to see how they can help both the environment and your pocketbook.

ASD: *Automatic Shutdown & Re-start*
GM: *Green Mode Equipped*
LS: *Load Shedding*
PCL: *Power Consumption Logging*
PFC: *Power Factor Correction*
RCM: *Recycled and Recyclable Packaging & Collateral*
RoHS: *Restriction of Hazardous Substances compliant*
SBM: *Superior Battery Management for Extended Life*

Visit www.minutemanups.com/green for more details

The Benefits of Power Protection

Power anomalies are a fact of life. Some sort of power problem has affected us all, whether it has been a power outage that caused an interruption of productivity, or equipment and data files that have sustained damage.

The cost associated with repair or replacement of equipment or recovery of corrupted data files can be substantial, whether you're a small, medium or large organization. Power protection devices, such as a surge protector or uninterruptible power supply, provide a sizeable return on investment, in many cases, from preventing just one power incident.

Surge Suppressors

If you are seeking basic power protection to prevent spikes and surges from causing catastrophic damage to circuit boards, power supplies, and other internal components, Minuteman's unique line of surge suppressors will meet your needs.

Uninterruptible Power Supplies

The full line of Minuteman uninterruptible power supply solutions provide maximum protection to shield your equipment from catastrophic damage while also providing battery backup during power outages.

Stand-By UPS

- Provides full protection from surges, spikes, blackouts and brownouts
- Switches to battery mode during brownouts, blackouts and over-voltages
- Most affordable UPS technology

Line Interactive UPS

- Full protection from surges, spikes, blackouts and brownouts
- Provides voltage regulation during sags and surges (boost and buck)
- Preserves battery power for blackouts so that batteries last longer

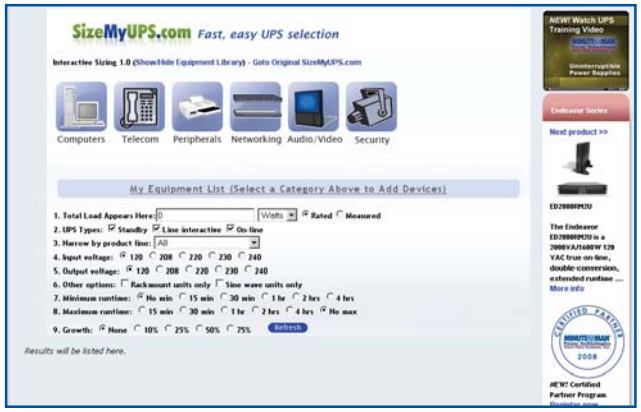
On-Line UPS

- Maximum protection from surges, spikes, sags and blackouts
- Continuously passes incoming power through a double-conversion (AC-to-DC-to-AC) inverter
- Reacts instantaneously to brown-outs, blackouts and over-voltages – no switching time to battery mode

Size My UPS

Para Systems offers the industry's most extensive on-line UPS selection guide at **www.SizeMyUPS.com**. This easy to use tool lists the power draw of thousands of products from hundreds of manufacturers, allowing the user to configure their installation and then determine exactly what Minuteman UPS products best suit their needs and their battery backup time requirements.

Battery backup runtime solutions are listed from the basic 10 to 15 minutes, to 4 hours, 8 hours and beyond, and equipment categories include computers, telecom, peripherals, networking, security and audio/video.



Three-Phase UPS

Para Systems has forged an alliance with General Electric (GE) Digital Energy Systems, providing our customers access to a comprehensive line of premium quality three-phase UPS products that offer solutions up to 750kVA. GE's world-renowned brand and history of quality products, along with a worldwide network of service professionals, assures customers that their purchase of GE/Minuteman three-phase products is a safe and sound decision.

For further information on these products, visit **www.minutemanups.com/3phase**.

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ENDEAVOR® SERIES ON-LINE UPS MAXIMUM PROTECTION

The Minuteman® Endeavor® Series on-line uninterruptible power supply is our premier product, providing the highest level of protection and power management capabilities. The Endeavor Series combines double-conversion technology with industry-leading features in a versatile case design that allows the units to be installed in many different formats and environments.

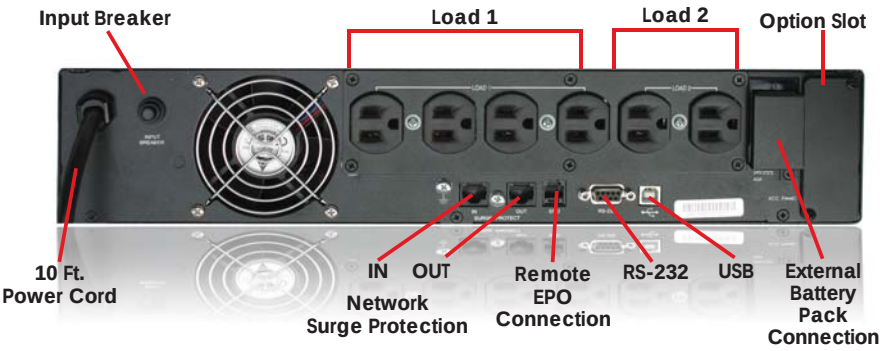
In developing one of the best-valued, highest quality UPS products on the market, the Endeavor Series offers these standard features:

- True double-conversion topology
- Front panel display with load/battery meter and status indicators
- True sinewave output supplied to attached equipment
- Extended runtime using external battery packs
- Floor-standing tower, 19-inch rack and cabinet installation kits included (23-inch rack and wallmount kits optional)
- Up to 0.8 power factor (in watts), allowing larger equipment capacities
- Output receptacle control for non-critical load shedding capability
- Simultaneous RS-232, USB and SNMP communications
- Minuteman® SentryPlus™ UPS monitoring and control software
- Three-year non-prorated warranty (including batteries)
- Dedicated remote Emergency Power Off (EPO) port
- 120V and 208V models available
- Hot-swappable batteries
- RoHS compliant
- UL listed

Extended Runtime: Use XL or EXL Battery Packs

Endeavor UPS Model ED2000RM2U with tower mount stand provided (standard)

Endeavor UPS Model ED2000RM2U with standard 19-inch rack mount kit



Back of Endeavor UPS Model ED1000RM2U

green features ASD LS PCL PFC RCM RoHS SBM

Endeavor On-line

UPS Model	VA/Watts	Internal Batteries Number/Type	Half load/Full load Runtime (Min.)	Receptacles	Dimensions (inches) HxWxD	Net weight	Standard Comm Port
Endeavor ED1000RM2U	1000/800	2-12V8.5Ah	13/4 min.	6 UPS	3.5 x 17.3 x 13.1	28.6 lbs.	RS-232,USB
Endeavor ED1500RM2U	1500/1200	4-12V7.2Ah	13/4 min.	6 UPS	3.5 x 17.3 x 17.0	46.2 lbs.	RS-232,USB
Endeavor ED2000RM2U	2000/1600	4-12V8.5Ah	13/4 min.	7 UPS	3.5 x 17.3 x 17.0	46.2 lbs.	RS-232,USB
Endeavor ED3000RM2U	3000/2100	6-12V8.5Ah	15/5 min.	7 UPS	3.5 x 17.3 x 24.0	67.7 lbs.	RS-232,USB
Endeavor ED6200RM with 1 battery module	6000/4200	20-12V7.2Ah	23/9 min.	Hardwire or receptacle box	8.75 x 17.3 x 26.8	173 lbs.	RS-232

CPE On-line

UPS Model	VA/Watts	Internal Batteries Number/Type	Half load/Full load Runtime (Min.)	Receptacles	Dimensions (inches) HxWxD	Net weight	Standard Comm Port
CPE 1000	1000/700	3-12V7.2Ah	23/8 min.	4 UPS	8.78 x 5.80 x 15.80	33.1 lbs.	RS-232
CPE 2000	2000/1400	6-12V7.2Ah	22/7 min.	6 UPS	14.40 x 5.10 x 18.90	59.5 lbs.	RS-232
CPE 3000	3000/2100	8-12V7.2Ah	23/8 min.	8 UPS	14.40 x 7.50 x 17.80	79.4 lbs.	RS-232

ENDEAVOR® 6-24KVA ON-LINE MODULAR UPS

6KVA ON-LINE RACKMOUNT UPS FEATURES

- Simple parallel installations (no extra PCB required)
- Programmable, digital signal processor design
- Easy-to-set user personalization
- Intelligent self-diagnosis
- Emergency Power Off (EPO) port
- True double-conversion on-line technology
- High input Power Factor and low voltage THD
- Energy efficient UPS
- LCD/LED panel
- 2 customer options slots
- Internal maintenance bypass
- i-Batt (automatically manages end of discharge voltage according to load capacity)
- Communication capability via SNMP/web card
- Access UPS via the internet
- Remotely test the major operating functions of UPS

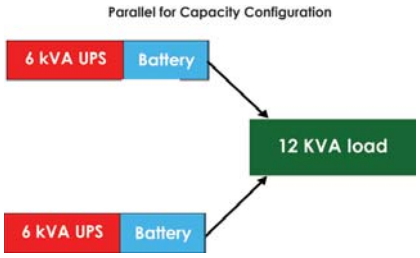
OPTIONS

- Maintenance bypass switch
- Galvanic isolated stepdown (120V) transformer

Extended Runtime: Use EDBP6000RM Battery Packs

PARALLEL FOR CAPACITY CONFIGURATIONS

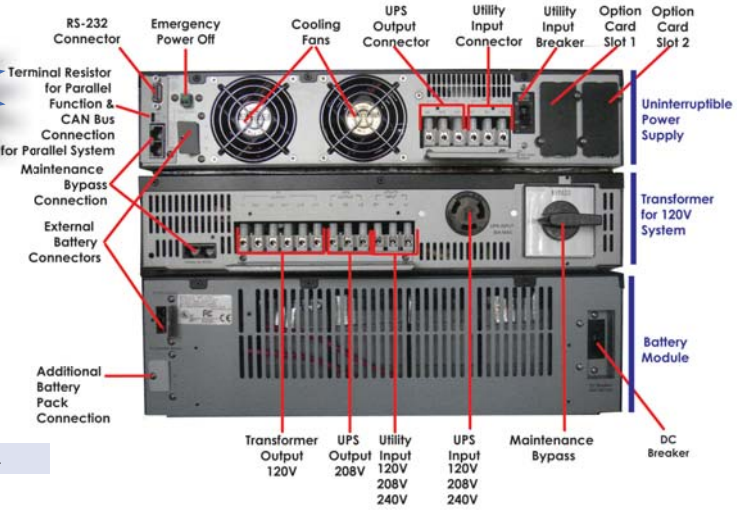
This configuration uses mirrored Endeavor 6kVA rackmount UPS systems to support loads higher than 4200 watts. Currently, parallel capacity configurations can be used to accommodate output loads of 12, 18 and 24kVA for 208V/240V systems.



PARALLEL FOR CAPACITY CONFIGURATION TABLE

Model	ED12000RM	ED18000RM	ED24000RM
Input	12kVA 208V / 240V	18kVA 208V / 240V	24kVA 208V / 240V
Output Load	12kVA 208V / 240V	18kVA 208V / 240V	24kVA 208V / 240V
Watts	8400	12600	16800
Rack Height	10 U	15 U	20 U
ED6200RM	2	3	4
EDBP6000RM Battery Pack	2	3	4
ED6- PARALLEL Parallel Kit	1	1	1
ED-MTBS	1	1	1

green features ASD PCL PFC RCM SBM

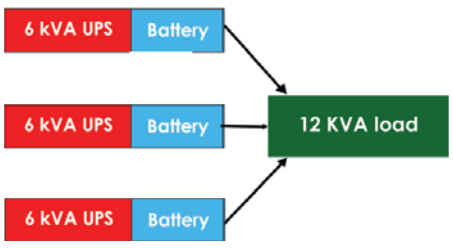


REDUNDANCY (N+1) CONFIGURATIONS

This configuration is used to provide redundancy backup. When one UPS is taken offline, this configuration allows the load to be redistributed to the remaining UPS units.

REDUNDANCY (N+1) CONFIGURATION TABLE

Model	ED6000RMN1	ED6200RMN1
Input	6kVA 208V / 240V	6kVA 208V / 240V
Output Load	6kVA 120V	6kVA 208V / 240V
Watts	4200	4200
Rack Height	14 U	10 U
ED6200RM	2	2
EDBP6000RM Battery Pack	2	2
ED6000RMXFMR	2	n/a
ED6- PARALLEL Parallel Kit	1	1



Endeavor® 6 & 10KVA On-line Tower UPS

The Endeavor Tower Series is yet another option for applications that require the best protection available. This feature-rich, single-phase, true on-line UPS has been desiged to support large loads for data centers, large telephone systems, and other mission-critical applications.

Perfectly regulated, continuous sinewave output with zero transfer time offers guaranteed uptime and compatibility with all equipment types.

Endeavor 6 & 10kVA Features

- True on-line topology with pure sinewave output
- Single-phase, 208 input, 120/208/240 output options
- Parallel configurations for 6, 10, 12, 18, 20, and 24kVA
- LCD and LED visual indicators
- Extended runtime with external battery packs
- Fully programmable, digital signal processor controlled
- Intelligent self-diagnosis
- Emergency Power-off (EPO) port
- Communications capability via RS-232 or optional SNMP (2 slots)
- Energy efficient UPS
- High input Power Factor and low voltage THD
- Remotely test the major operating functions of UPS
- Optional maintenance bypass
- Galvanic isolation stepdown

Extended Runtime: Use EDBP6000T or EDBP10000T Battery Packs

green features ASD PFC PCL RCM SBM

Endeavor On-line Tower

UPS Model	VA/Watts	Internal Batteries Number/Type	Half load/Full load Runtime (Min.)	Receptacles*	Dimensions (inches) HxWxD	Net weight	Comm Port
ED6000T (208V in/120 & 208/240V out)	6000/4200	20-12V7.2Ah	21/8 min	Hard-wired	25.4 x 11.4 x 29.4	275 lbs.	RS-232
ED6200T (208V in/208/240V out)	6000/4200	20-12V7.2Ah	21/8 min	Hard-wired	25.4 x 11.4 x 29.4	165 lbs.	RS-232
ED10000 (208V in/120 & 208/240V out)	10000/7000	20-12V9Ah	15/5 min	Hard-wired	25.4 x 11.4 x 34.7	374 lbs.	RS-232
ED10200 (208V in/208/240V out)	10000/7000	20-12V9Ah	15/5 min	Hard-wired	25.4 x 11.4 x 29.4	264 lbs.	RS-232

Extended Runtime Battery Packs

Compatible with Endeavor 1-3 kVA and EnterprisePlus Series

The average power outage is about 20 minutes, but the average extended power outage is nearly 8 hours. These types of long blackouts can be very costly to any business.

To protect critical devices through extended blackouts, the EnterprisePlus and Endeavor 1-3 kVA UPS Series are able to utilize the XL Series of external battery packs that can be daisy-chained to provide a virtually unlimited amount of battery runtime.

Market-leading Innovations

Our first extended runtime UPS was offered to the market more than 20 years ago. Since then, Minuteman extended runtime products have carved out a reputation for reliability when reliability means the most. The XL and EXL battery packs provide additional choices for our customers with extreme runtime requirements, adding further to the Minuteman legacy of innovative product offerings.

green features SBM RoHS

XL Battery Packs

EnterprisePlus and Endeavor 1-3 kVA UPS Series are able to utilize the XL Series of external battery packs that can be daisy-chained to provide a virtually unlimited amount of battery runtime.

XL Battery Pack Features

- Independent battery chargers
- Identical case designs with UPS
- 2U rack height
- Rack/tower/wall configurations

EXL Battery Packs

When extreme backup times are required, the Minuteman EXL series battery packs provide a very cost-effective means to achieve long uptime.

EXL Battery Pack Features

- Daisy-chain to achieve unlimited runtime
- High-powered batteries
- 3U rack height
- Rack/tower configurations

EnterprisePlus™ Line Interactive UPS

The Minuteman EnterprisePlus uninterruptible power supply combines line interactive technology with industry-leading features in a versatile case design that allows the units to be installed in many different formats and environments.

Managing attached devices via Minuteman's SentryPlus software provides users with the ability to communicate with the UPS simultaneously through three separate protocols: RS-232, USB and TCP/IP. Users can now directly connect and manage the UPS from multiple stand-alone, or networked computers. By including concurrent Ethernet communications (SNMP or direct IP address), the EnterprisePlus UPS can provide detailed monitoring and management in many environments.

- **0.8 power factor -** increases the capacity of the unit without migrating to larger models (0.88 power factor for 2000VA and 0.853 power factor for 3000VA).
- **Load-shedding -** Addressable receptacles, allowing load-shedding during battery backup conditions, extends uptime for more critical devices.
- **Independent Battery Bypass™** - allows the UPS to provide voltage regulation with surge and spike protection on the utility AC power even when batteries are weak or dead.

EnterprisePlus UPS

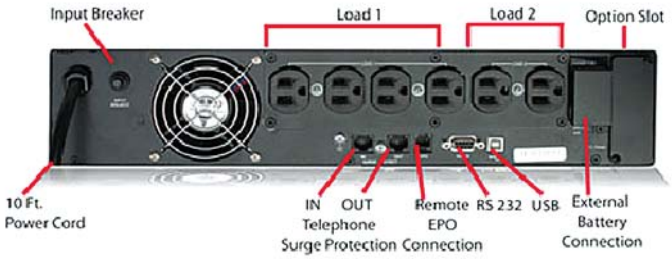
Additional Features:

- True sinewave output with low Total Harmonic Distortion (THD)
- Rackmount brackets and floormount stand included (wallmount and 23" Rackmount optional)
- Manual and automatic intelligent self-test
- Easy to read front panel display - with load/battery meter
- Add optional external battery packs to extend battery backup time
- Dedicated remote Emergency Power Off (EPO) port
- 120V and 208V models available
- RoHS compliant
- UL Listed

Extended Runtime: Use XL or EXL Battery Packs

EnterprisePlus™ Front Panel

EnterprisePlus™ Rear Panel



EnterprisePlus™ UPS with tower mount stand (provided)

green features ASD LS PCL RCM RoHS SBM

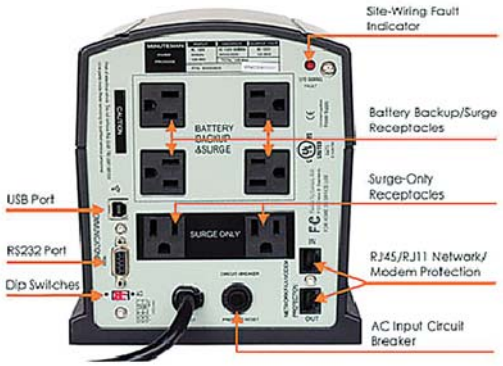
EnterprisePlus Line Interactive

UPS Model	VA/Watts	Internal Batteries Number/Type	Half load/Full load Runtime (Min.)	Receptacles	Dimensions (inches) HxWxD	Net weight	Standard Comm Port
EnterprisePlus E750RM2U	750/600	3-12V7.2Ah	17/8 min	6 UPS	3.5 x 17.3 x 17.0	42.9 lbs.	RS-232,USB
EnterprisePlus E1000RM2U	1000/800	3-12V7.2Ah	15/5 min	6 UPS	3.5 x 17.3 x 17.0	45.3 lbs.	RS-232,USB
EnterprisePlus E1500RM2U	1500/1200	3-12V8.5Ah	11/4 min	6 UPS	3.5 x 17.3 x 17.0	45.3 lbs.	RS-232,USB
EnterprisePlus E2000RM2U	2000/1760	6-12V7.2Ah	13/5 min	7 UPS	3.5 x 17.3 x 24.0	74.8 lbs.	RS-232,USB
EnterprisePlus E3000RM2U	3000/2560	6-12V8.5Ah	8/3 min	7 UPS	3.5 x 17.3 x 24.0	78.3 lbs.	RS-232,USB

PRO-E™ Line Interactive UPS Series

The Minuteman PRO-E™ Series delivers complete protection in an amazingly compact space on a desktop or under a console. The PRO-E product line provides more runtime than competitive products by packing in more battery power.

Designed for use with workstations, small servers, network peripheral devices, small telephone and security systems, the PRO-E has a long legacy of providing reliable protection.



Model PRO500E/PRO700E UPS

Enhanced Features

- Automatic Voltage Regulation (AVR)
- Longer runtime with high powered batteries
- Adjustable input and output voltages
- Surge protection for network or a phone line (120V models only)
- Minuteman's Sentry II power management and diagnostic software
- Three-year warranty (including batteries)
- RoHS compliant, UL listed

green features ASD PCL RCM RoHS SBM

PRO-RT™ Line Interactive UPS Series

The Minuteman PRO-RT™ Series delivers complete protection in a flexible package that can be installed in a rack, tower or optional wall mount configuration. The PRO-RT product line also provides an LCD display to show realtime UPS status information and events. It's perfect for entry-level data center installations and includes a standard SNMP slot typically found on more expensive UPS models.

Model PRO1500RT UPS with tower feet (left) and rack ears (right)

green features ASD PCL RCM RoHS SBM

PRO-E
Line Interactive

UPS Model	VA/Watts	Internal Batteries Number/Type	Half load/Full load Runtime (Min.)	Receptacles	Dimensions (inches) HxWxD	Net weight	Standard Comm Port
PRO500E (iE)	500/350	1-12V9Ah	15/4	4 UPS/2 Surge	7.56 x 6.38 x 12.56	20.3 lbs.	RS-232, USB
PRO700E (iE)	700/490	2-12V7Ah	17/5	4 UPS/2 Surge	7.56 x 6.38 x 12.56	27.3 lbs.	RS-232, USB
PRO1100E (iE)	1000/770	3-12V7Ah	16/5	6 UPS	8.03 x 6.38 x 16.18	39.2 lbs.	RS-232, USB
PRO1500E (iE)	1500/1050	3-12V9Ah	14/4.5	6 UPS	8.03 x 6.38 x 16.18	42.3 lbs.	RS-232, USB

PRO-RT
Line Interactive (Rack/tower and optional wall-mount)

PRO1000RT	1000/700	2-12V9Ah	17/5	6 UPS/2 Surge	3.50 x 17.30 x 15.70	35.1 lbs.	RS-232, USB
PRO1500RT	1500/1050	3-12V9Ah	17/5	6 UPS/2 Surge	3.50 x 17.30 x 15.70	43.0 lbs.	RS-232, USB

ENTRUST™ LINE INTERACTIVE UPS SERIES

The Minuteman Entrust Series UPS provides users with all the features usually found in higher-priced UPS products, offering voltage regulation, spike and surge protection, plus battery backup.

The Entrust Series supports workstations, small servers, network peripheral devices, small telephone and security systems. The small, uniquely designed footprint is ideal for placement on or under a desk. All models in the series can also be installed horizontally on a shelf, in a rack, or cabinet installation.

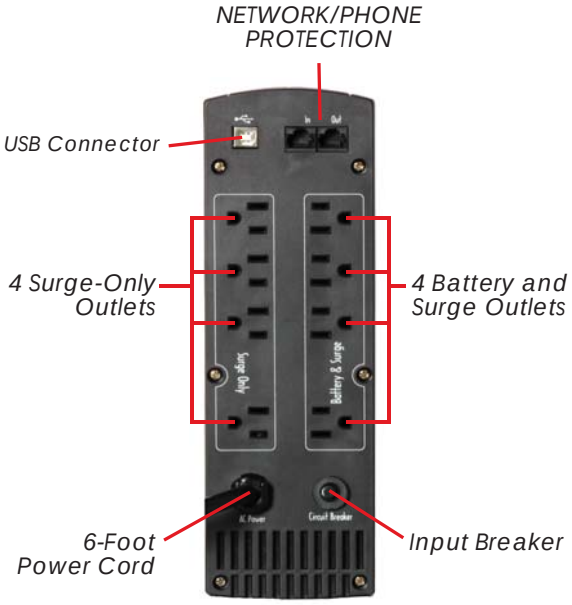
Each unit has four outlets that provide backup battery support along with spike and surge protection. There are an additional four spike and surge protected outlets for accessory devices that do not require battery backup. Two of the outlets are specifically spaced to support equipment with transformer blocks.

Each Entrust model includes Minuteman's SentryPlus power management and diagnostic software. When installed on a workstation or server, the user gains complete control over monitoring and managing the UPS using a convenient web browser-based interface.

ENTRUST FEATURES

- Buck/Boost Voltage Regulation provides a stable AC source during less than optimal power conditions without constant use of internal batteries.
- USB Communications – With SentryPlus power management software (included)
- Network or phone/fax line surge protection
- 4 battery backup receptacles, 4 surge-only (1 each with transformer-friendly spacing)
- Simulated sinewave output
- RoHS Compliant
- UL listed

Entrust Series UPS



green features ASD PCL RCM RoHS

Entrust Line Interactive

UPS Model	VA/Watts	Internal Batteries Number/Type	Half load/Full load Runtime (Min.)	Receptacles	Dimensions (inches) HxWxD	Net weight	Standard Comm Port
ETR500	500/300	1-12V5Ah	9/2	4 UPS/ 4 Surge	10.8 x 3.43 x 10.9	13.23 lbs.	USB
ETR700	700/420	1-12V7Ah	10/3	4 UPS/ 4 Surge	10.8 x 3.43 x 10.9	15.44 lbs.	USB
ETR700P15*	700/420	1-12V7Ah	10/3	4 UPS/ 4 Surge	10.8 x 3.43 x 10.9	16.14 lbs.	USB
ETR1000	1000/600	2-12V7Ah	14/4	4 UPS/ 4 Surge	10.8 x 3.43 x 16.4	28.89 lbs.	USB
ETR1500	1500/900	2-12V9Ah	11/3	4 UPS/ 4 Surge	10.8 x 3.43 x 16.4	29.33 lbs.	USB
ETR1500P15*	1500/900	2-12V9Ah	11/3	4 UPS/ 4 Surge	10.8 x 3.43 x 16.4	30.12 lbs.	USB

* 15-foot power cord provided. All other models have 6-foot power cord.

EnSpire® Standby UPS Series

The Minuteman® EnSpire® Series UPS is an economically-priced UPS line that provides the features needed to protect your valuable equipment.

The EnSpire UPS has a small footprint and is uniquely designed with outlets on the top for placement on or under a desk or table, and all models can be wall mounted.

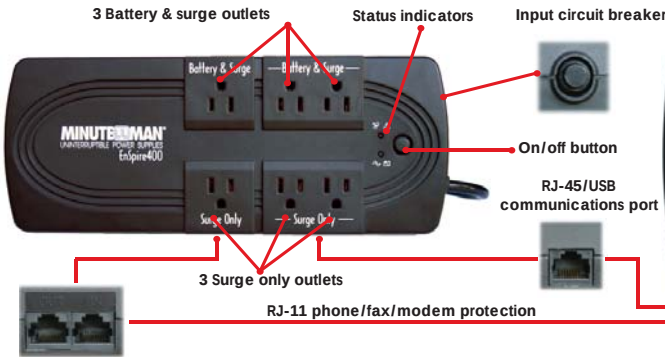
The EN400 and EN600 units each have six outlets, three provide battery support along with spike and surge protection and three with spike and surge protection only. The EN750 and EN900 have four each of the outlets described above for total protection of up to eight connected devices. In addition, all units have outlets which are specifically spaced to support transformer blocks.

Each EnSpire model includes Minuteman's SentryPlus power management and diagnostic software. When installed on a workstation or server, the user gains complete control over monitoring and managing the UPS using a convenient web browser-based interface.

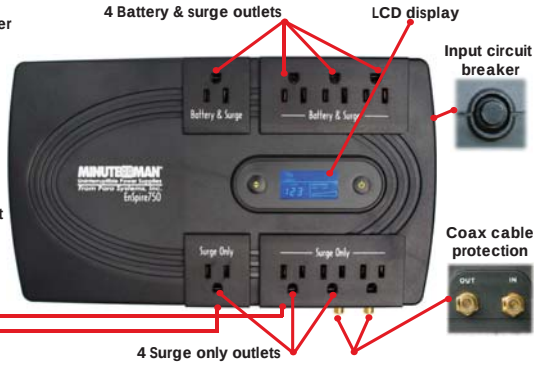
EnSpire EN900 - 900VA/500W Standby UPS

EnSpire EN600 - 600VA/300W Stand-by UPS

EnSpire EN400/EN600 Top View



EnSpire EN750/EN900 Top View



EnSpire Features

- USB communications – With SentryPlus power management software (included)
- Single line phone/fax line surge protection
- 3 battery backup, 3 surge-only receptacles
- Two receptacles have transformer-friendly spacing
- Simulated sinewave output
- RoHS compliant
- Conforms to UL1778 standards

Additional features on EN750/EN900 models:

- 1 extra battery backup and surge-only receptacle
- LCD status indicators show UPS events and status
- Green Mode for energy efficiency
- Coax cable protection

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EnSpire Standby

UPS Model	VA/Watts	Internal Batteries Number/Type	Half load/Full load Runtime (Min.)	Receptacles	Dimensions (inches) HxWxD	Net weight	Standard Comm Port
EnSpire EN400	400/200	1-12V4.5Ah	10/2	3 UPS/3 Surge	11.97 x 4.84 x 3.35	6.44 lbs.	USB(RJ-45)
EnSpire EN600	600/300	1-12V5.0Ah	10/2	3 UPS/3 Surge	11.97 x 4.84 x 3.35	7.05 lbs.	USB(RJ-45)
EnSpire EN750	750/400	1-12V7.0Ah	10/2	4 UPS/4 Surge	12.40 x 7.20 x 3.30	9.40 lbs.	USB(RJ-45)
EnSpire EN900	900/500	1-12V9.0Ah	10/2	4 UPS/4 Surge	12.40 x 7.20 x 3.30	9.70 lbs.	USB(RJ-45)

SentryPlus™ Monitoring Software

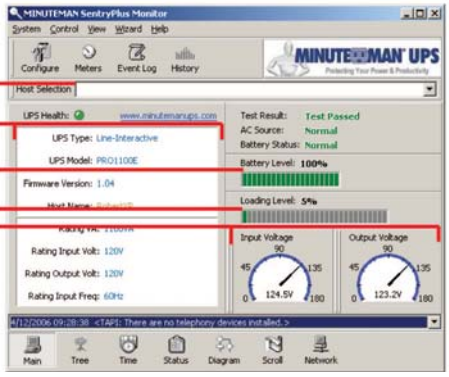
In today's complex world of data, networks, and software, control and management of applications is vital, especially when it comes to the power that is supplied to these devices. SentryPlus is a powerful tool that enables a wide array of control that end-users and network managers require before, during and after a power-related event.

Unlike competitive power management products, SentryPlus goes far beyond the normal system shutdown features, allowing total control, along with feature-rich diagnostic tools using real-time or historical data.

In case of a catastrophic power event, SentryPlus allows numerous options on how, when and where shutdown procedures will occur. Whether your system is a single workstation or a complicated network of servers and peripheral devices, you are in control of how power is managed.

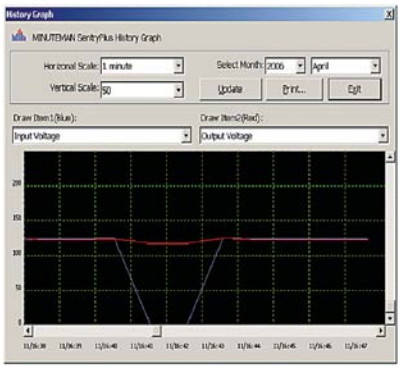
The list of features and management options is long, and SentryPlus includes many capabilities not found in other power management software offerings. SentryPlus is shipped free of charge with most Minuteman UPS products.

SentryPlus Monitor



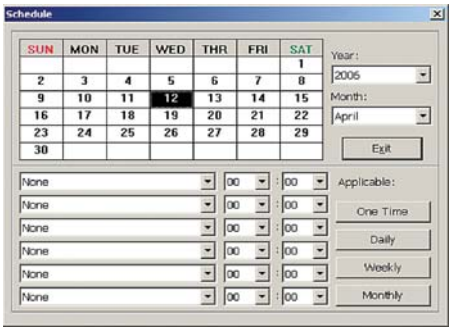
- Provided at no extra charge
- Provides a friendly user interface and communicates with SentryPlus service
- Can be connected from local or remote sites

History Graphs



Event Logs

Scheduler



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Features

- Compatible with Windows Vista, XP, 2000, NT, ME, 98, 95, Unix and Linux
- SNMP/Ethernet compatibility
- Concurrent monitoring through single or multiple computers via RS-232, USB and Ethernet connections
- Multi-computer shutdown/ restart through TCP/IP network
- Remote monitoring, control and configuration through TCP/IP network
- Monitor and control multiple UPS devices from a single application session
- Perform scheduled shutdowns and restarts
- E-mail, pager and network broadcast of user-defined UPS events
- Full diagnostic and event reporting
- Real-time graphical displays of user-defined UPS and utility conditions
- Record and save graphical event and history logs for future analysis
- Compatible with most active Minuteman UPS products.
- Full diagnostic reporting, printable history, event logs and security measures
- Easy to install and operate
- Supports the Microsoft® Windows® 2000/XP hibernation feature (Windows version only)
- Auto-Save files before graceful operating system shutdown
- Restart, test UPS and control receptacles
- Notification via pager, e-mail, voice alarm, network broadcast and SNMP trap
- Real-time meters display UPS data (voltage, frequency, loading percentage, etc.)
- Monitor all UPSs at a glance within a network
- Supports SNMP (Simple Network Management Protocol) get, set and trap commands
- Supports DMI (Desktop Management Interface) (Windows version only)
- Supports HTTP, monitor by Microsoft IE or Netscape Communicator

Remote Power Manager Series

The Minuteman Remote Power Manager (RPM) Series provides the ability to monitor and manage your power to devices both local and remote. You now have the ability to monitor and turn on and off power at remote sites from anywhere in the world.

This allows you to reset these devices without dispatching personnel to remote locations, saving valuable time and money.

The RPM 1600 Series can control AC power for up to 128 connected devices (with optional clients) such as servers, hubs, routers, modems, and telephone systems through a single IP address.

This provides you the ability to have either a graceful server shutdown or a scheduled shutdown/restart.

The ability to access and control power to devices at remote sites can save both time and money while protecting your investment.

Up to 15 client RPM 1600 Series units can be added to control a total of 128 devices through a single IP address.

RPM 1600 Series standard features include: eight outlets, dedicated phone control, power off/on LEDs, surge protection, and HTTP/SNMP support. RPMs are available for 15 and 20-Amp loads.

Communication and Control

The Minuteman RPM 1600 Series offers several convenient and flexible methods of communication and control for devices while on an Ethernet network or outside a network using an external modem or a telephone:

- **Ethernet** – Most users connect Minuteman's RPM to a network using a standard Ethernet connection. It can then be monitored and managed easily within a web browser or through a telnet session. The RPM can submit its notifications via e-mail, SNMP trap, or network broadcast. It can be pre-set for a day of the week and a specific time to start-up and shut down individual devices.
- **External modem** – The RPM 1600 Series can also enable web browser control if there's no direct network connection by using an external modem. The RPM will establish a dial-up Internet connection and e-mail you its IP address, allowing control of the RPM through a web browser.
- **Telephone** – With no additional modem required, the RPM 1600 Series can be called from anywhere in the world and, using the touchtone keypad, commands can be executed to securely reset devices as needed.

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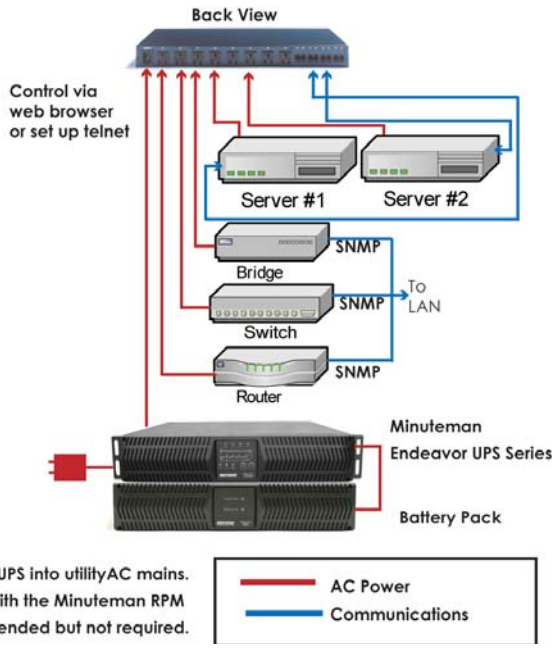
Models

- **RPM 1521** Base unit with 2 outlets, controllable by browser
- **RPM 1601** Base Unit with 8 outlets controllable by phone or browser
- **RPM 1609** Base Unit with 8 outlets controllable by phone or browser and 8 NT shutdown ports
- **RPM 1600** Expansion Client expands either base unit with 8 more outlets
- **RPM 1600C** Expansion Client with 8 ports expands either base unit with 8 more outlets and 8 NT shutdown ports

All RPM1600 Series models available in 115V 15-Amp, 20-Amp and 230V 15-Amp

Power Distribution Unit (PDU) with Remote Power Monitoring - RPM Series (RPM1609, 15-Amp, unit shown)

2-Port RPM



MMPD Series - Power Distribution Units (PDUs)

Building on the expertise and experience of over 25 years in the power protection industry, Para Systems, Inc. developed the Minuteman Power Distribution Unit (PDU) with our traditional high quality and exceptional value.

The MMPD Series provides a comprehensive feature set usually found only on more expensive or custom products. These include:

- **Longer power cords** - Minuteman PDU units have 15-foot power cords
- **More outlets standard** – Minuteman PDU units are available with 8, 10, 14, 18 or 24 outlets. All but the 18 and 24-outlet PDUs have additional front and rear receptacles for ease of access.
- **Configuration versatility** - Minuteman PDU units have a multi-form factor with 2U, 1U, and 0U configurations allowing for either horizontal or vertical placement. 1U products ship with a stand-off mounting bracket at no additional cost that allows for vertical installation on most racks and enclosures.
- **High standards** - PDUs are compliant with higher UL 60950-1 standards. MMPD Series is compatible with any data center or network installation.

MMPD Series
Power Distribution Units
(MMPD1420HV, 20-Amp, horizontal/vertical unit shown)

0-U vertical mounting MMPD models
(MMPD1815V48, 15-Amp, 48-inch vertical unit shown)

- **Load-metering** – Amp-metered units are available to display connected equipment loads.
- **Superior protection** – Minuteman offers PDUs with surge suppression providing superior equipment protection – 2000 joules of surge protection on each unit
- **Protected investment** – All Minuteman PDUs carry a limited lifetime warranty.

Surge Suppressor Power Distribution Units - MMS Series
(MMPD1415HVA 15-Amp, horizontal/vertical unit shown)

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Model	Outlets/Receptacles	Size/Features
MMPD815HV	*8-Outlet 15-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU*
MMPD1020HV	*10-Outlet 15/20-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU*
MMPD1020HVL	*10-Outlet, 15/20-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU with Locking Input Plug*
MMPD1415HV	*14-Outlet, 15-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU*
MMPD1420HV	*14-Outlet, 15/20-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU*
MMMPD1420HVL	*14-Outlet, 15/20-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU with Locking Input Plug*
MMPD81530H	*8-Outlet, 15-Amp & 30-Amp Rec.*	*2U Horizontal Mounting PDU with locking input plug*
MMPD1815V48	*18-Outlet, 15-Amp Receptacles*	*0U Vertical Mounting PDU*
MMPD2415V62	*24-Outlet, 15-Amp Receptacles*	*0U Vertical Mounting PDU*
MMPD2420V62	*24-Outlet, 15/20-Amp Receptacles*	*0U Vertical Mounting PDU*
MMPD2420V62L	*24-Outlet, 15/20-Amp Receptacles*	*0U Vertical Mounting PDU with Locking Input Plug*
MMS1015HV	*10-Outlet, 15-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU with Surge Suppression*
MMS1020HV	*10-Outlet, 15/20-Amp Receptacles*	*1U/0U Horizontal or Vertical Mounting PDU with Surge Suppression*
MMS1020HVL	*10-Outlet, 15/20-Amp Receptacles*	*1U/0U Horiz. or Vert. Mounting PDU with Surge Suppression, Locking Input Plug*
MMPD1415HVA	*14-Outlet, 15-Amp Receptacles*	*Amp-metered, 1U/0U Horizontal or Vertical Mounting PDU*
MMPD2420VA62	*24-Outlet, 15/20-Amp Receptacles*	*Amp-metered, 0U Vertical Mounting PDU*
MMPD2420VA62L	*24-Outlet, 15/20-Amp Receptacles*	*Amp-metered, 0U Vertical Mounting PDU with Locking Input Plug*

Surge Protection Products

There are numerous surge suppression products on the market, but Minuteman offers leading-edge designs that deliver more value at a better price. One of the most distinctive features on several products from Minuteman is rotating receptacles. This provides unmatched flexibility and allows use of all receptacles on the surge strip, even when numerous power transformers must be plugged in.

Minuteman also incorporates higher Joule ratings than competitive units, providing greater protection for your attached equipment.

We also lengthened power cords and added cord management to provide ease of installation. In addition, most units have a wall-mount option.

For households or businesses with children, some models have child safety sliding receptacle covers to prevent dangerous accidents. Some models also include DSL, coax and phone line surge protection to further prevent unwanted line surges from damaging your equipment.

All of our surge products out-pace the competition when it comes down to value.

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12-Outlet/8-Rotating Outlet Surge Suppressor with coax and phone line protection [MMS7120RCT]

- Rotating outlets designed for connecting multiple transformers
- Eight 90° rotating grounded outlets and four fixed grounded outlets
- Phone/fax/modem/coax protection
- Telephone cord included
- Cord management design
- Wall mountable
- Nine-foot power cord
- UL 1449 listed
- Lifetime limited warranty
- $200,000 connected equipment warranty protection
- LED indicators
- 4320 Joules

10-Outlet/5-Rotating Outlet Surge Suppressor with phone line protection [MMS7100RT]

- Rotating outlets designed for connecting multiple transformers
- Five 90° rotating grounded outlets and five fixed grounded outlets
- Phone/fax/modem protection
- Telephone cord included
- Cord management design
- Wall mountable
- Seven-foot power cord
- UL 1449 listed
- Lifetime limited warranty
- $150,000 connected equipment warranty protection
- 2880 Joules

6-Rotating Outlet Surge Suppressor with coax and phone line protection [MMS760RCT]

- Six 90° rotating outlets designed for connecting multiple transformers
- Satellite/cable receiver coax protection
- Phone/fax/modem protection
- LED status indicators
- Plugs directly into duplex receptacle
- Phone cord included
- UL 1449 listed
- Lifetime limited warranty protection
- $100,000 connected equipment warranty protection
- 2160 Joules

8-Outlet/6-Rotating Outlet Surge Suppressor [MMS780R]

- Rotating outlets designed for connecting multiple transformers
- Six 180° rotating outlets and two fixed outlets
- Wall-mountable
- Cord management design
- Seven foot power cord
- UL 1449 listed
- Lifetime limited warranty
- $100,000 connected equipment warranty protection
- 2160 Joules

7-Outlet Surge Suppressor with "child safety" covers and phone line protection [MMS370T]

- Seven fixed grounded outlets
- Child safety covers
- LED Status indicators
- Wall mountable
- Lifetime limited warranty
- UL 1449 listed
- Phone/fax/modem protection
- Telephone cord included
- $75,000 connected equipment warranty protection
- 1440 Joules

7-Outlet Surge Suppressor with "child safety" covers [MMS370]

- Seven fixed grounded outlets
- Child safety covers
- LED status indicators
- Wall-mountable
- Lifetime limited warranty
- UL 1449 listed
- $50,000 connected equipment warranty protection
- 1080 Joules

LineGuard™ Surge Suppressors

Ruggedized 7-Outlet Surge Suppressor [MMS570]

- Seven fixed outlets
- Ruggedized metal case design
- Wall-mountable
- Lifetime limited warranty
- UL 1449 listed
- Safety shutdown technology
- High-frequency capacitors
- LED indicators
- $75,000 connected equipment warranty protection
- Nine-foot power cord
- 1440 Joules

6-Outlet Surge Suppressor "twin pack" [MMS362P]

- Two units in one pack
- Protects against line surges and spikes
- Six grounded outlets each
- Wall mountable
- Two-year warranty
- UL 1449 listed
- 241 Joules

3-Outlet Surge Suppressor with coax protection [MMS130C]

- Three grounded outlets
- Lifetime limited warranty
- UL 1449 listed
- $50,000 connected equipment warranty protection
- LED indicators
- Coax/DSS protection
- Switch shutdown technology
- High frequency capacitors
- 1080 Joules

Single Outlet Surge Suppressor [MMS110]

- Single grounded outlet
- New MOV technology
- Safety shutdown technology
- High frequency capacitors
- LED indicators
- Lifetime limited warranty
- UL 1449 listed
- $25,000 connected equipment warranty protection
- 540 Joules

The Minuteman LineGuard Surge Suppressors are perfect for protecting security and networking devices from damaging power surges and lightning. Models are available for protecting both analog video camera lines (BNC) as well as Cat5e and Cat6 network-based IP cameras and equipment.

- **Unique design** - Small footprint mounts easily on the wall
- **High standards** - UL 497 and UL 497B ratings
- **Solid-state protection** - Provides fast response time
- **Limited Lifetime Warranty** (in U.S.A. and Canada only)
- **$10,000 connected equipment guarantee**
- **2 LED status indicators** - Offer visual confirmation of status: ON/OFF and proper grounding
- **Wall-mountable** - Units can be interlinked to maintain a single grounding connection

Models

MMS-PTZ-BNC
MMS-PTZ-UTP
MMS-PTZ-BAL
MMS-CAT6-LAN
MMS-CAT6-POE
MMS-CAT5-LAN-RJ45
MMS-CAT5-POE-RJ45

MMS - PTZ - BNC for analog cameras

MMS - CAT6 - LAN for IP-based cameras

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SNMP Modules

SNMP Network Management Cards from Minuteman turn our SNMP-capable UPSs into managed devices with a dedicated IP address, allowing monitoring and control of the UPS and attached equipment via an SNMP network management platform or a web browser. The EnterprisePlus and Endeavor series are able to support SNMP functions with these optional cards.

SNMP-NET Card
Allows monitoring and control of UPS.

SNMPv3 and SSL Card
Allows secure monitoring and control of UPS Optional add-ons include temperature and humidity, smoke, door, water and vibration

SNMP-ENV Probe
Allows environmental monitoring (temperature and humidity, works with SNMP-NET)

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Additional cards and options are available. See website for more details.

www.minutemanups.com/snmp

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